

# FLEXWAVE

WP 系列 WP Series

## 新推出 100 大尺寸

New Large Size 100

### 持续改进扩展产品阵容

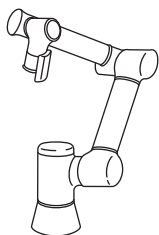
Continual Progress Expanding Lineup

**FLEXWAVE 大尺寸、强动力、高精度  
减速机，适用于最严苛的应用场景**

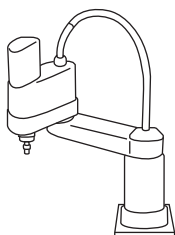
FLEXWAVE's large-scale, powerful, and high precision  
reducer for your most demanding applications



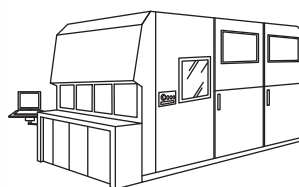
#### 应用领域 Applications



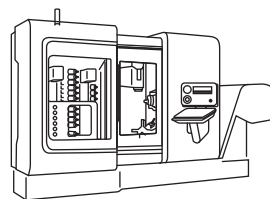
关节型机器人  
Articulated robot



SCARA 机器人  
Scara robot



半导体制造设备  
Semiconductor manufacturing equipment



机床  
Machine tools

## 型号 Model Nomenclature

| WP                  | S                                         | 100        | 50           | SR                                            | —                                                                                   | **                                      |
|---------------------|-------------------------------------------|------------|--------------|-----------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------|
| 系列名称<br>Series name | 类型<br>Type                                | 尺寸<br>Size | 减速比<br>Ratio | 代码<br>Code                                    |                                                                                     | 规格<br>Specifications                    |
| WP 系列<br>WP Series  | S : 简易组合型<br>S:Simple unit Type           | 35         | 50           | SR S : 简易组合型<br>S:Simple unit Type            |  | 输入轴直径等<br>Input shaft diameter,<br>etc. |
|                     | U : 组合型 (输入轴)<br>U:Unit type(Input shaft) | 42         | 80           | SRJ U : 组合型 (输入轴)<br>U:Unit type(Input shaft) |  |                                         |
|                     | 组合型 (中空轴)<br>Unit type(Hollow shaft)      | 50         | 100          |                                               |                                                                                     |                                         |
|                     |                                           | 63         | 120          | SRH 组合型 (中空轴)<br>Unit type(Hollow shaft)      |  |                                         |
|                     |                                           | 80         | 160          |                                               |                                                                                     |                                         |
|                     |                                           | 100        |              |                                               |                                                                                     |                                         |

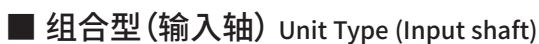
## 规格 Specifications

|            |                   | * 1                                | * 2                                | * 3                                | * 4                                | * 5                                | * 6          |
|------------|-------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|--------------|
| 尺寸<br>Size | 减速比<br>Ratio<br>R | 容许平均力矩<br>Nominal output<br>torque | 容许最大力矩<br>Maximum output<br>torque | 紧急最大力矩<br>Emergency stop<br>torque | 容许平均输入转速<br>Nominal<br>input speed | 容许最高输入转速<br>Maximum input<br>speed | 寿命时间<br>Life |
|            |                   | [Nm]                               | [Nm]                               | [Nm]                               | [rpm]                              | [rpm]                              | [hr]         |
| 35         | 50                | 7                                  | 23                                 | 46                                 | 3,000                              | 8,500                              | 10,000       |
|            | 80                | 10                                 | 30                                 | 61                                 |                                    |                                    |              |
|            | 100               | 10                                 | 36                                 | 70                                 |                                    |                                    |              |
| 42         | 50                | 21                                 | 44                                 | 91                                 | 3,000                              | 7,300                              |              |
|            | 80                | 29                                 | 56                                 | 113                                |                                    |                                    |              |
|            | 100               | 31                                 | 70                                 | 143                                |                                    |                                    |              |
|            | 120               | 31                                 | 70                                 | 112                                |                                    |                                    |              |
| 50         | 50                | 33                                 | 73                                 | 127                                | 3,000                              | 6,500                              |              |
|            | 80                | 44                                 | 96                                 | 165                                |                                    |                                    |              |
|            | 100               | 52                                 | 107                                | 191                                |                                    |                                    |              |
|            | 120               | 52                                 | 113                                | 191                                |                                    |                                    |              |
|            | 160               | 52                                 | 120                                | 191                                |                                    |                                    |              |
| 63         | 50                | 51                                 | 127                                | 242                                | 3,000                              | 5,600                              |              |
|            | 80                | 82                                 | 178                                | 332                                |                                    |                                    |              |
|            | 100               | 87                                 | 204                                | 369                                |                                    |                                    |              |
|            | 120               | 87                                 | 217                                | 395                                |                                    |                                    |              |
|            | 160               | 87                                 | 229                                | 408                                |                                    |                                    |              |
| 80         | 50                | 99                                 | 281                                | 497                                | 3,000                              | 4,800                              |              |
|            | 80                | 153                                | 395                                | 738                                |                                    |                                    |              |
|            | 100               | 178                                | 433                                | 841                                |                                    |                                    |              |
|            | 120               | 178                                | 459                                | 892                                |                                    |                                    |              |
|            | 160               | 178                                | 484                                | 892                                |                                    |                                    |              |
| 100        | 50                | 178                                | 523                                | 892                                | 3,000                              | 4,000                              |              |
|            | 80                | 268                                | 675                                | 1,270                              |                                    |                                    |              |
|            | 100               | 345                                | 738                                | 1,400                              |                                    |                                    |              |
|            | 120               | 382                                | 802                                | 1,530                              |                                    |                                    |              |
|            | 160               | 382                                | 841                                | 1,530                              |                                    |                                    |              |

新产品  
NEW!

- ※1 输入转速为2000 r/min 时的容许最大值  
 ※2 启动、停止时的容许最大值  
 ※3 发生撞击时的容许最大值  
 ※4 运转过程中，平均输入转速的容许最大值  
 ※5 运转过程中，输入转速的容许最大值  
 ※6 输入转速2000 r/min，容许额定力矩负荷时的寿命时间

- \*1 The maximum allowable value at the input rotation speed of 2000 r/min  
 \*2 The maximum torque when starting and stopping.  
 \*3 The maximum torque when it receives shock.  
 \*4 The maximum average input speed.  
 \*5 The maximum input speed.  
 \*6 The life time at the input rotation speed of 2000 r/min and nominal output torque.

WPS-100- ☐ -SRWPU-100-  -SRJWPU-100-  -SRH

If you use the gear with continuous operation in one direction or small oscillation angle, please contact us as it may cause lubrication problems.

## 高精度减速机 High-Precision Reducers

适用于需要高精度的机器人。涵盖从小型到大型的全系列产品。

Ideal for robots that require high-precision. Lineup from small to large sizes.

### **FLEXWAVE** WP 系列 WP Series

**轻量化紧凑型设计、高减速比、低背隙**  
Lightweight and compact, high reduction ratio, low backlash

适用于需要高精度和精确控制的应用场景！应用于机器人、半导体制造设备等多种领域。

For applications that require high-precision and control!  
Used in a variety of applications including robots and semiconductor manufacturing equipment.



**减速机型 Gearhead type**  
**易于操作 Easy to handle**

电机安装简便！适用于机床、半导体制造设备、机械手等应用场景。  
Easy motor installation! Ideal for machine tools, semiconductor manufacturing equipment, robot hands, etc.



### **KINEX**

**高精度、高刚性、低噪音**  
High accuracy, high rigidity, low noise

运行平稳安静的大型高精度减速机，可在机器人、机床等多种应用场景中实现“精准运动”

A smooth and quiet large size highly precise reducer that supports "excellent movement" in a variety of applications such as robots and machine tools.



### **Smart-FLEXWAVE** Built-in Multi Sensor

**全球首款集成多传感器的齿轮减速机**  
World's first gear reducer with integrated multi-sensor

通过利用现有空间，本公司的产品实现了出色的省空间、轻量化和低成本优势。

By utilizing the existing area, our product achieves excellent space-saving, lightweight, and low-cost benefits.



## ABLE 减速机 ABLE reducers

高精度减速机。多系列产品满足客户需求。

High-precision reducers. Various series to meet customer needs.

### **VRXF 系列 VRXF series**

**畅销标准型号**

**Best selling standard model**

采用新型齿轮设计，提升扭矩和效率

Increased torque and efficiency with new gear design



### **NEV 系列 NEV series**

**轻量化 / 紧凑型**

**Light weight / compact**

提供实心 and 空心两种类型

Solid and hollow types are available



## **GRAESSNER**

超薄设计，节省空间

Ultra-thin design ideal for space saving

### **DYNA 齿轮 系列**

**DYNA GEAR series**

**高精度准双曲面减速器**

**High-precision hypoid reducer**

本公司另可提供多种其他系列产品。

We also have many other series available.



### **伺服减速机选定工具**

**Servo Reducer Selection Tool**

如需详细规格及外形尺寸图，请查看本公司网站上的“减速机选定工具”。

For detailed specifications and external dimension drawings, please check the "Gearbox Selection Tool" on our website.



## 尼得科传动技术(浙江)有限公司 NIDEC DRIVE TECHNOLOGY (ZHEJIANG) CORPORATION

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